

Appl. No. 10/648,687

**Amendments to the Claims**

Please add three new claims (21-23) to the existing 20 claims in the application:

Claim 21 (new): An edge-on radiation detector used in nuclear medicine wherein interaction height information is used to determine sub-aperture resolution.

Claim 22 (new): The edge-on radiation detector of Claim 21 wherein the edge-on radiation detector is a semiconductor array detector.

Claim 23 (new): The edge-on radiation detector of Claim 21 wherein the edge-on radiation detector is a scintillator array detector.